

[illegible]

120 HIV-1 Tat, or derivatives thereof, alone or in combination, for prophylactic and therapeutic vaccination against AIDS, tumors and related syndromes

<140> RM97A000743

<160> 34

&lt;170&gt; PatentIn Ver. 2.0

<210> 1

<211> 261

<212> DNA

**<213> Aids-associated retrovirus**

<400> 1

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gctgtacca attgctattg taaaaagtgt tgccttcatt gccaaagttg tticataaca 120  
aaagccctag gcatctccta tggcaggaag aagcggagac agcgacgaag acctctcaa 180  
ggcagtcaga ctcatcaagt ttctctatca aagcagccca cctcccaatc ccgaggggac 240  
ccgacaggcc cgaaggaata 261

 $\langle 210 \rangle_2$ 

<211> 83

&lt;212&gt; PRT

**<213> Aids-associated retrovirus**

<400> 2

Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser Gln  
1 5 10 15

Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe His  
20 25 30

Cys Gln Val Cys Phe Ile Thr Lys Ala Ile Ser Tyr Gly Arg Lys Lys  
35 40 45

Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr His Gln Val  
50 55 60

Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp Pro Thr Gly  
65                70                75                80

Pro Lys Glu

$\langle 210 \rangle_3$

**<211> 260**

## <212> DNA

**<213> Aids-associated retrovirus**

**<400> 3**

atggagccag tagatcctag actagagccc tggaagcatc caggaagtca gcctaaaact 60  
gcggtaccaa tigctattgt aaaaagtgtt gctttcattg ccaagtttct ticataacaa 120

aagccttagg catctcctat ggcaggaaga agcggagaca ggcacgaaga cctcctcaag 180  
gcagtcagac tcatcaagtt tctctatcaa agcagccac cctccaatcc cgaggggacc 240  
cgacaggccc gaaggaatag 260

<210> 4

<211> 261

<212> DNA

<213> Aids-associated retrovirus

<400> 4

atggagccag tagatcctag actagagccc tggaagcatc caggaagtca gcctaaaact 60  
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aacgccttag gcatctccta tggcaggaag aagcggagac agcgacgaag acctcctcaa 180  
ggcagtcaga ctcatcaagt ttctctatca aagcagccca cctccaatc ccgaggggac 240  
ccgacaggcc cgaaggaata g 261

<210> 5

<211> 252

<212> DNA

<213> Aids-associated retrovirus

<400> 5

atggagccag tagatcctag actagagccc tggaagcatc caggaagtca gcctaaaact 60  
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aaagccttag gcatctccta tggcaggaag aagcggagac agcgacgaag acctcctcaa 180  
ggcagtcaga ctcatcaagt ttctctatca aagcagccca cctccaatc cccgacaggc 240  
ccgaaggaat ag 252

<210> 6

<211> 252

<212> DNA

<213> Aids-associated retrovirus

<400> 6

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aacgccttag gcatctccta tggcaggaag aagcggagac agcgacgaag acctcctcaa 180  
ggcagtcaga ctcatcaagt ttctctatca aagcagccca cctccaatc cccgacaggc 240  
ccgaaggaat ag 252

<210> 7

<211> 86

<212> PRT

<213> Aids-associated retrovirus

<400> 7

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser  
1 5 10 15

Gln Pro Lys Thr Ala Gly Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe  
20 25 30

His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly  
35 40 45

Arg Lys Lys Arg Arg Gln Arg Arg Pro Pro Gln Gly Ser Gln Thr  
50 55 60

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp  
65 70 75 80

Pro Thr Gly Pro Lys Glu

0555534-07100

85

&lt;210&gt; 8

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 8

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser

1 5 10 15

Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe

20 25 30

His Cys Gln Val Cys Phe Ile Thr Thr Ala Leu Gly Ile Ser Tyr Gly

35 40 45

Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr

50 55 60

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp

65 70 75 80

Pro Thr Gly Pro Lys Glu

85

&lt;210&gt; 9

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 9

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser

1 5 10 15

Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe

20 25 30

His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly

35 40 45

Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr

50 55 60

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Pro Thr Gly

65 70 75 80

Pro Lys Glu

&lt;210&gt; 10

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 10

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser

1 5 10 15

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Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe  
20 25 30

His Cys Gln Val Cys Phe Ile Thr Thr Ala Leu Gly Ile Ser Tyr Gly  
35 40 45

Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr  
50 55 60

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Pro Thr Gly  
65 70 75 80

Pro Lys Glu

<210> 11

<211> 20

<212> PRT

<213> Aids-associated retrovirus

<400> 11

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser  
1 5 10 15

Gln Pro Lys Thr  
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<210> 12

<211> 20

<212> PRT

<213> Aids-associated retrovirus

<400> 12

Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe His Cys Gln Val  
1 5 10 15

Cys Phe Ile Thr  
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<210> 13

<211> 16

<212> PRT

<213> Aids-associated retrovirus

<400> 13

Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly Arg Lys  
1 5 10 15

<210> 14

<211> 15

<212> PRT

<213> Aids-associated retrovirus

<400> 14

Ser Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln  
1 5 10 15

007E20"4E99560

&lt;210&gt; 15

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 15

Arg Pro Pro Gln Gly Ser Gln Thr His Gln Val Ser Leu Ser Lys Gln

1

5

10

15

&lt;210&gt; 16

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 16

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp

1

5

10

15

&lt;210&gt; 17

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 17

Pro Thr Ser Gln Ser Arg Gly Asp Pro Thr Gly Pro Lys Gln

1

5

10

&lt;210&gt; 18

&lt;211&gt; 15

&lt;212&gt; DNA

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 18

atggcaggaa gaagc

15

&lt;210&gt; 19

&lt;211&gt; 15

&lt;212&gt; DNA

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 19

ctattcttta gtcc

15

&lt;210&gt; 20

&lt;211&gt; 15

&lt;212&gt; DNA

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 20

atgggtggca agtgg

15

&lt;210&gt; 21

&lt;211&gt; 15

&lt;212&gt; DNA

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 21

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15

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<210> 22  
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<400> 22  
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<210> 23  
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<400> 26  
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<210> 27  
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<400> 27  
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<210> 28  
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<400> 28  
atggagccag tagat 15

<210> 29  
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<400> 29

ctattccttc gggcc

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&lt;210&gt; 30

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 30

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27

&lt;210&gt; 31

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 31

ggcccgaagg aaatgggtgg caagtgg

27

&lt;210&gt; 32

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 32

ggcccgaagg aaatgggtgc gagagcg

27

&lt;210&gt; 33

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 33

ggcccgaagg aaatgtggcc ccctggg

27

&lt;210&gt; 34

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Aids-associated retrovirus

&lt;400&gt; 34

ggcccgaagg aaatgagaat ttcgaaa

27

095534-07100